

Government of India Central Electricity Authority

PFA Monitoring Division

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(आई एस ओ 9001-2008)

No. 07/03/CEA/PFAM/(Distribution Plan)/2016/514-532 Dated: 06.12.2016

Sub: Constitution of Committee for Preparation of Perspective Plan for Distribution Sector in Western Region – Regarding

This is in continuation to our earlier letter even dated 8-11-2016 addressed to Secretaries/Principal Secretaries of State/UTs and dated 1-11-2016. addressed to CMD REC and PFC. It has now been decided to constitute a Committee comprising of the Members from respective Distribution Companies, REC Ltd, PFC Ltd and CEA for preparation of a perspective plan for distribution sector as below:

1. Chief Engineer (PFAM), CEA

-Chairman

2. Director(DP&D), CEA

-Member

- 3. CMD, REC ltd, New Delhi
- 4. CMD, PFC ltd, New Delhi
- 5. Chairman & Managing Director, M.P. Paschim KVVNL, Indore, MP
- 6. Chairman & Managing Director, M.P. Poorvi KVVNL, Jabalpur (MP)
- 7. Chairman & Managing Director, M.P. Madhya KVVNL, Bhopal (MP)
- 8. Chairman & Managing Director, PGVCL, Rajkot, Gujarat
- 9. Chairman & Managing Director, MGVCL, Vadodara, Gujarat
- 10. Chairman & Managing Director, UGVCL, Mehsana, Gujarat
- 11. Chairman & Managing Director, DGVCL, Surat, Gujarat
- 12. Chairman & Managing Director, Torrent Power Ltd, Ahmedabad, Gujarat
- 13. Chairman & Managing Director, CSPDCL, Raipur, Chhattisgarh
- 14. Chairman & Managing Director, MSEDCL, Mumbai
- 15. Chairman, Reliance Energy Ltd. (REL), Mumbai (Maharashtra)
- 16. Chairman, BEST, Mumbai, Maharashtra
- 17. Chairman, Tata Power, Mumbai (Maharashtra)
- 18. Chief Electrical Engineer, Electricity Department, Panaji (Goa)
- 19. Executive Engineer, DNHPDCL, Silvassa
- 20. Executive Engineer, Electricity Department, Moti Daman
- 21. Director (PFAM), CEA, Member Secretary

The Terms of Reference(TOR) of the Committee shall be as below:

1. Prepare the Discom /State wise Perspective plan for Distribution segment upto 2021-22 considering the projected Energy Requirement in NEP/EPS for the components such as-Electrical Infrastructure, Village and Households electrification, Feeder Segregation, Measures for AT&C loss reduction along with Metering of Consumers, DTs and Feeders, Measures for improvement of Reliability and Quality of Power, implementations of communication connectivity of SCADA, OFC and V-Sat, GPS based GIS mapping, IT enablement, Fund requirement, availability & gap etc.

2. Perspective Plan shall include the components as indicated above already Existing, Present status of ongoing projects and projects planned under the schemes/programme such as IPDS, DDUGJY, State plans and other plans/schemes, if any upto 2021-22.

3. Members of the Committee from Discoms of States/UT shall prepare the Perspective plan upto 2021-22 for respective Discoms/Power departments in consultation with members from REC ltd and PFC ltd, wherever required, in the prescribed proforma.

Timeline

It is kindly requested to nominate a member for this Committee (Director/Executive Director level for PFC/REC and Chief Engineer(Tech) or equivalent for Discoms/Power Deptt.). Nominations should reach this office by 15th December 2016.

Above data in the prescribed proforma should be submitted within 02 months for finalization of distribution perspective plan upto 2021-22 within 4 months by the Committee.

The meeting notice will be circulated shortly.

Yours faithfully

Encl: As above

(M.M. DHAKATE)
Director(PFAM)

- 1. Director(DP&D), CEA, New Delhi
- 2. CMD, REC Ltd., New Delhi
- 3. CMD, PFC Ltd., New Delhi
- 4. Chairman & Managing Director, M.P. Paschim Kshetra Vidut Vitran Company Ltd. (MP Paschim KVVNL), Indore (MP)
- 5. Chairman & Managing Director, M.P. Poorvi Kshetra Vidut Vitran Company Ltd. (MP Poorvi KVVNL), Jabalpur (MP)
- 6. Chairman & Managing Director, M.P. Madhya Kshetra Vidut Vitran Company Ltd. (MP Madhya KVVNL), Bhopal (MP) 462023
- 7. Chairman & Managing Director, Paschim Gujarat Vij Company Ltd. (PGVCL), Rajkot (Gujarat)
- 8. Chairman & Managing Director, Madhya Gujarat Vij Company Ltd. (MGVCL), Vadodara (Gujarat)
- 9. Chairman & Managing Director, Uttar Gujarat Vij Company Ltd. (UGVCL), Mehsana (Gujarat)
- 10. Chairman & Managing Director, Dakshin Gujarat Vij Company Ltd. (DGVCL), Surat (Gujarat)
- 11. Chairman & Managing Director, Torrent Power Ltd, Ahmedabad (Gujarat)
- 12. Chairman & Managing Director, Chhattisgarh State Power Distribution Company Ltd, Raipur (Chhattisgarh)
- 13. Chairman & Managing Director, Maharastra State Electricity Distribution Company Limited (MSEDCL), Mumbai
- 14. Chairman, Reliance Energy Ltd. (REL), Mumbai (Maharashtra)
- 15. Chairman, Brihan Mumbai Electric Supply & Transport Undertaking (BEST), Mumbai (Maharashtra)
- 16. Chairman, Tata Power, Mumbai (Maharashtra)
- 17. Chief Engineer (Electrical), Electricity Department, Government of Goa, Panaji (Goa)
- 18. Executive Engineer, Electricity Department, Administration of Dadra & Nagar Haveli (D&NH), Silvassa
- 19. Executive Engineer, Electricity Department, Administration of Daman & Diu, Moti Daman

A. Electrical Infrastructure -Addition of New capacity & augmentation

- 1.0 Please state the Status of Load Flow study carried out for existing and for future expansions- for Each Discoms/Power Deptt of State
- 1.1 Please Note that the Electrical Infrastucture to be created/augmented is based on Future requirement, Load flow study etc, pl give a write up for Each Discoms/Power Deptt of State
- 1.2 The Infrastructure required new capacity addition/augmentation be based on the ongoing Schemes-DDUGJY, IPDS and other State schemes etc.
- 1.4 PI furnish a write up on issues on achieveing the Plan/targets for Each Discoms/Power Deptt of State
- 1.5 PI mention the Scheme/Programme of Coverages suitably. Confirmation of figure with PFA documents may be made clearly mentioned.
- 1.6 Status and Plan for Electrical Infrasturucture in Rural and Urban areas/Towns/cities for Each Discoms/Power Deptt of State
- 1.7 Pl give details (Name of Power S/s, Feeders or location/areawise DTs, Feeders(including underground cables etc.)
- 1.8 No column should be left blank. If No details are available then please write "NA".

| Name of | | Existing upto | New | Electrical | Infrastruc | ture Plan | upto 202 | 1-22 | Auamen | ted Electri | ical Infras | tructure P | lan upto | 2021-22 | Remarks |
|----------------|--|-------------------|------------|------------|------------|-----------|----------|----------|---------|-------------|-------------|------------|----------|----------|---------|
| Discom/Powe | | 2015-16, as on | | | | | · | | | | | | · · | | |
| r Deptt, State | Item/Description | 31.03.2016 | | | | | | | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | |
| A1) Capacity A | ddition : Electrical Infrastructure in | Rural Areas (In | cluding un | der the on | going sch | emes DDL | JGJY and | others) | | | | | | | |
| | Power | | | | | | | | | | | | | | |
| | SubStations(66/33/22),Nos | | | | | | | | | | | | | | |
| | Capacity of Power | | | | | | | | | | | | | | |
| | SubStations(66/33/22),MVA | | | | | | | | | | | | | | |
| | Feeders of Power | | | | | | | | | | | | | | |
| | SubStations(66/33/22KV), Nos | | | | | | | | | | | | | | |
| | Capacitor bank, Nos | | | | | | | | | | | | | | |
| | Nos of Distribution Transformers, | | | | | | | | | | | | | | |
| | Nos | | | | | | | | | | | | | | |
| | Capacity of Distribution | | | | | | | | | | | | | | |
| | Transformers(11/0.433KV),KVA | | | | | | | | | | | | | | |
| | Feeders (11KV), Nos | | | | | | | | | | | | | | |
| | Feeder segregation | | | | | | | | | | | | | | |
| | Length of Feeders (11KV), CKM | | | | | | | | | | | | | | |
| | Length of LT Feeders (.433KV, | | | | | | | | | | | | | | |
| | .215KV), CKM | | | | | | | | | | | | | | |
| | Capacitor bank, Nos | | | | | | | | | | | | | | |
| A2) Capacity A | ddition:Electrical Infrastructure in | Urban areas (Inc | luding und | der the on | going sche | mes IPDS | and Othe | ers) | | | | | | | |
| | Nos of Power | , | | | , , | | | ľ | | | | | | | |
| | SubStations(66/33/22),Nos | | | | | | | | | | | | | | |
| | Capacity of Power | | | | | | | | | | | | | | |
| | SubStations(66/33/22),MVA | | | | | | | | | | | | | | |
| | Feeders of Power | | | | | | | | | | | | | | |
| | SubStations(66/33/22KV), Nos | | | | | | | | | | | | | | |
| | Capacitor bank, Nos | | | | | | | | | | | | | | |
| | Nos of Distribution Transformers, | | | | | | | | | | | | | | |
| | Nos | | | | | | | | | | | | | | |
| | Capacity of Distribution | | | | | | | | | | | | | | |
| | Transformers(11/0.433KV),KVA | | | | | | | | | | | | | | |
| | Feeders (11KV), Nos | | | | | | | | | | | | | | |
| | Feeder segregation | | | | | | | | | | | | | | |
| | Length of Feeders (11KV), CKM | | | | | | | | | | | | | | |
| | Length of LT Feeders (.433KV, | | | | | | | | | | | | | | |
| | .215KV), CKM | | | | | | | | | | | | | | |
| | Capacitor bank, Nos | | | | | | | <u> </u> | | | | | | <u> </u> | |
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B. Electrification of Villages and Households

- 1.0 please Note that the Villages inhibited and Urban/town/cities, HouseHolds are as per Census 2011, if Not, pl give a write up for Each Discoms/Power Deptt of State
- 1.1 please state the basis of Nos of BPL Hosuseholds-whether based on SECC 2011 or others(specify) in a separate writeup for Each Discoms/Power Deptt of State
- 1.2 PI furnish a write up on issues on achieveing the Plan/targets for Each Discoms/Power Deptt of State
- 1.3 Status and Plan for Village Electrification, Urban areas/Towns/cities and House Holds for Each Discoms/Power Deptt of State
- 1.4 No column should be left blank. If No details are available then please write "NA".

| Name of | | | Electrified a | ıs on 31-03 | | | | | | | | | | | | | | |
|------------|--|-------------|---------------|-------------|----------|---------|---------|-----------|------------|----------|---------|---------|---------|---------|------------|---------|---------|---------|
| Discom/Pow | | Particulars | 201 | 16 | Name of | | Plan up | to 2021-2 | 22(grid co | nnected) | | | Plan | upto 20 | 21-22(off- | grid) | | Remarks |
| er Deptt, | | as per | Grid | | Scheme/P | | | | | | | | | | | | | |
| State | Item/Description | census 2011 | connected | off-Grid | rogramme | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | |
| | Village | | | | | | | | | | | | | | | | | |
| | Electrification | | | | | | | | | | | | | | | | | |
| | Electrification of Urban areas(Towns/cities) | | | | | | | | | | | | | | | | | |
| 1 | Total Households in Villages/Rural Areas | | | | | | | | | | | | | | | | | |
| | Total Households in Urban area(towns/Cities) | | | | | | | | | | | | | | | | | |
| | BPL Households in Villages | | | | | | | | | | | | | | | | | |
| | BPL Households in Urban areas(Towns/Cities) | | | | | | | | | | | | | | | | | |

Note-1) PI mention if figures match with PFA documents/DDUGJY scheme

2) PI give details (Name of Village, Towns ,Rural areas, with HH numbers) for electrfication

C. Measures for AT&C loss reduction/ trajectory

- 1.0 Whether any study/assesment for AT&C loss for Each Discoms/Power Deptt of State is done for reduction
- 1.1 If Yes, Please mentioned the observations/findings, recommendations, timelines etc for Discom/Powerdeptt of State for reduction of losses
- 1.2 Pl furnish a writeup on measures adopted, and proposed, issues on achieveing the Plan/targets for Each Discoms/Power Deptt of State
- 1.3 PI mention whether target is as per MOP upto 2021-22 or upto 2018-19 or as per UDAY
- 1.4 PI give details (Name of Power S/s, Feeders(including underground cables etc.), consumers: existing and covered under metering.
- 1.5 No column should be left blank. If No details are available then please write "NA".

C1) Status and Plan for AT&C loss Reduction-

| | | Present Status in | | | Plan up | to 2021-22 | | | Remarks |
|----------------------|-------------------------------------|----------------------|---------------|----------|---------|------------|---------|---------|---------|
| Name of Discom/Power | | 2016-17, as on | | | | | | | |
| Deptt, State | Item | 31.10.2016 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | |
| C2 2) Metering (| olan in Urban areas (Including und | ler the ongoir | na schemes | IPDS and | Others) | | | | |
| oz.z) Wetering [| | ler the origon | lg sorierries | Bo and | | | | | |
| | Feeders of Power | | | | | | | | |
| | SubStations(66/33/22KV), Nos | | | | | | | | |
| | Distribution Transformers, Nos | | | | | | | | |
| | Feeders (11KV), Nos | | | | | | | | |
| | Metering of all Consumers, Nos | | • | • | | • | • | • | |
| | Domestic | | | | | | | | |
| | Commercial | | | | | | | | |
| | Industrial (LT) | | | | | | | | |
| | Industrial (HT) | | | | | | | | |
| | Public Lighting | | | | | | | | |
| | Traction (including DMRC) | | | | | | | | |
| | Agriculture | | | | | | | | |
| | Public water works & Sewage | | | | | | | | |
| | Pumping | | | | | | | | |
| | Miscellaneous | | | | | | | | |

D. Funds for Electrical Infrastructure -Addition of New and Augmentation of Capacity

- 1.0 The Fund requirement for Infrastructure required(new and augmentation capacity addition) to be based on the ongoing Schemes-DDUGJY, IPDS and other State schemes
- 1.1 Please state the Status of Funds , sanctioned and released, Gaps for future expansions in line with estimation in PFA documents- for Each Discoms/Power Deptt of State
- 1.2 PI furnish a write up on issues on achieveing the Plan/targets for Each Discoms/Power Deptt of State
- 1.4 No column should be left blank. If No details are available then please write "NA".

| | | | | -16, as c | | | | | | | | | | | | | | | | | | | | |
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| | | | 31. | 03.2016 | 1 | | | I | Requir | <u>ement</u> | of Fu | nds, Av | vailabi | Ity, Ga | p in P | <u>lannni</u> | ng up | to 202 | 1-22, i | in Rs C | rs | | | |
| | | | | | | | Avalab | | | Avalab | | Requir | Avalab | | Requir | Avalab | | Requir | Avalab |) | Requir | Avalab | | |
| Name of | | Total Fund | | | | | | | ement | ility in | Gap in | ement | ility in | Gap in | | | | | | | ement | ility in | | |
| Discom/Power | | Requirement, in Rs | Require | Avalab | | in | 2016- | 2016- | in | 2017- | 2017- | in | 2018- | | | | 2019- | | 2020- | 2020- | in | 2021- | 2021- | |
| Deptt, State | Item/Description | | | ility | Gap | 2016- | 17 | | 2017- | | | 2018- | 19 | 19 | 2019- | 20 | 20 | 2020- | 21 | 21 | 2021- | 22 | 22 | Remarks |
| | for Capacity Addition:Electrical | Infrastructure in Rura | al Areas (| Includir | g und | der the o | ngoing | scheme | s DDUG. | IY and o | thers) | | | | | | | | | | | | | |
| | Power SubStations | | | | | | | | | | | | | | | | | | | | | | | |
| | (66/33/22/11KV)-New | | | | | | | | | | | | | | | | | | | | | | | |
| | Addition | | | | | | | | | | | | | | | | | | | | | | | |
| | Power SubStations | | | | | | | | | | | | | | | | | | | | | | | |
| | (66/33/22/11KV)- | | | | | | | | | | | | | | | | | | | | | | | |
| | Augmentation | | | | | | | | | | | | | | | | | | | | | | | |
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| | Feeders of Power SubStations | | | | | | | | | | | | | | | | | | | | | | | |
| | (66/33/22/11KV)-New | | | | | | | | | | | | | | | | | | | | | | | |
| | addition | | | | | | | | | | | | | | | | | | | | | | | |
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| | Feeders of Power SubStations | | | | | | | | | | | | | | | | | | | | | | | |
| | (66/33/22/11KV)- | | | | | | | | | | | | | | | | | | | | | | | |
| | Augmentation | | | | | | | | | | | | | | | | | | | | | | | |
| | Distribution Transformers- | | | | | | | | | | | | | | | | | | | | | | | |
| | New Addition | | | | | | | | | | | | | | | | | | | | | | | |
| | Distribution Transformers- | | | | | | | | | | | | | | | | | | | | | | | |
| | Augmentation | | | | | | | | | | | | | | | | | | | | | | | |
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| | Feeders (11KV)-New Addition | | | | | | | | | | | | | | | | | | | | | | | |
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| | Feeders (11KV)-augmentation | | | | | | | | | | | | 1 | | | | | | | | | | | |
| | Capacitor bank, Nos-new | | | | | | | | | | | | | | | | | | | | | | | |
| | additions | | | | | | | | | | | | | | | | | | | | | | | |
| | Capacitor bank, Nos- | | | | | | | | | | | | | | | | | | | | | | | |
| | Augmentations | | | | | | | | | | | | | | | | | | | | | | | |
| | Feeder Segregation, 11KV | | | | | | | | | 1 | | ļ | 1 | ļ | ļ | ļ | 1 | ļ | <u> </u> | 1 | ļ | ļ | ļ | |
| | LT Feeders-New Addition | | | | | | | | | 1 | | ļ | 1 | ļ | ļ | ļ | 1 | ļ | <u> </u> | 1 | ļ | ļ | ļ | |
| | LT Feeders-augmentation | | | | | | | | | 1 | | ļ | 1 | ļ | ļ | ļ | 1 | ļ | <u> </u> | 1 | ļ | ļ | ļ | |
| | Metering of Feeders- | | | | | | | | | | | | | | | | | | | | | | | |
| | 66/33/22KV | | | | | | | | | ļ | | | 1 | 1 | | | 1 | | | | | | | |
| | Metering of Feeders-11KV | | | | | | | | | ļ | | | 1 | 1 | | | 1 | | | | | | | |
| | Metering of DTs | | | | | | | | | ļ | | <u> </u> | 1 | ļ | <u> </u> | <u> </u> | 1 | | <u> </u> | 1 | <u> </u> | | | |
| | Metering of all Consumers | | | | | | | | | ļ | | <u> </u> | 1 | ļ | <u> </u> | <u> </u> | 1 | | <u> </u> | 1 | <u> </u> | | | |
| | Fund for IT/communication | | | | | | | | | ļ | | <u> </u> | 1 | ļ | <u> </u> | <u> </u> | 1 | | <u> </u> | 1 | <u> </u> | | | |
| | optic fibre link | | | | | | | | | 1 | | ļ | 1 | ļ | ļ | ļ | 1 | ļ | <u> </u> | 1 | ļ | ļ | ļ | |
| | SCADA | | | | | | | | | | | ļ | <u> </u> | <u> </u> | ļ | ļ | | | | <u> </u> | ļ | ļ | | |
| | V-SAT | | | | | | | | | | | ļ | <u> </u> | <u> </u> | ļ | ļ | | | | <u> </u> | ļ | ļ | | |
| | GIS incl. mapping and | | | | | | | | | | | | | | | | | | | | | | | |
| | indexation | | | | | | | | | | | | | | | | | | | <u> </u> | | ļ | | |
| | Smart meter-AMI | | | | | | | | | | | l | | | | l | | | | | | | | |

| | | | 2015 | -16, as | | 1 | | | Doguir | omont | of Eur | nds, Av | railahi | ltv Ca | n in D | lannni | na un | to 202 | 1 22 | in Dc C | rc | | | т — |
|-----------------------|-----------------------------------|---------------------------|--------------|-----------|----------|----------|-------------|-------------|-----------|----------|-------------|---------|---------|----------|--------|----------|-------|--------|-------|-----------|----------|----------|----------|---------|
| | | | 2013 | -10, as | OII | Requir | | | Requir | | UI Fu | Requir | | | Requir | | | Requir | | III KS CI | Requir | 1 | | - |
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| Name of | | Total Fund | | | | | | Gap in | | ility in | | | | Gap in | | ility in | | | | Gap in | | ility in | | |
| Discom/Power | | Requirement, in Rs | Doguiro | Avolob | | 2016- | 2014 | 2014 | 2017 | 2017 | 3017 | 2018- | 2010 | 3010 | 2010 | 2010 | 2010 | 2020 | 2020 | 2020- | 2021 | 2021 | 2021- | |
| Deptt, State | Item/Description | | ment | | Gap | | 2010- 17 | 17 | 18 | 18 | 2017- 18 | 19 | 19 | 19 | 2019- | 2019- | 2019- | 2020- | 2020- | 2020- | 2021- | 2021- | 2021- | Remarks |
| | for Capacity Addition of Electric | | | | | | | | | | | 19 | 19 | 119 | 20 | 20 | 20 | 21 | Z I | ZI | 22 | 22 | 22 | Kemarks |
| D.2) Status of Fullus | Power SubStations | cai illirastructure ili o | i Daii ai ea | 15 (11101 | uairig | unaer tr | ie origoi | ng sche | illes IPD | 3 and Ot | ners) | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | |
| | (66/33/22/11KV)-New | | | | | | | | | | | | | | | | | | | | | | | |
| | Addition | | | | | | | | | | | | | | | | | | | | | | | |
| | Power SubStations | | | | 1 | | | - | - | - | | - | - | | - | - | | - | 1 | | | 1 | ├ | + |
| | (66/33/22/11KV)- | | | | | | | | | | | | | | | | | | | | | | | |
| | Augmentation | | | | | | | | | | | | | | | | | | | | | | | |
| | Augmentation | | | | | | | | | | | | | | | | | | | 1 | 1 | | ├── | + |
| | Feeders of Power SubStations | | | | | | | | | | | | | | | | | | | | | | | |
| | (66/33/22/11KV)-New | | | | | | | | | | | | | | | | | | | | | | | |
| | addition | | | | | | | | | | | | | | | | | | | | | | | |
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| | Feeders of Power SubStations | | | | | | | | | | | | | | | | | | | | | | | |
| | (66/33/22/11KV)- | | | | | | | | | | | | | | | | | | | | | | | |
| | Augmentation | | | | | | | | | | | | | | | | | | | | | | | |
| | Distribution Transformers- | | | | | | | | | | | | | | | | | | | | | | <u> </u> | |
| | New Addition | | | | | | | | | | | | | | | | | | | | | | | |
| | Distribution Transformers- | | | | | | | | | | | | | | | | | | | | 1 | | | 1 |
| | Augmentation | | | | | | | | | | | | | | | | | | | | | | | |
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| | Feeders (11KV)-New Addition | | | | | | | | | | | | | | | | | | | | | | | |
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| | Feeders (11KV)-augmentation | | | | | | | | | | | | | | | | | | | | | | | |
| | Feeder Segregation, 11KV | | | | | | | | | | | | | | | | | | | | | | | |
| | LT Feeders-New Addition | | | | | | | | | | | | | | | | | | | | | | | |
| | LT Feeders-augmentation | | | | | | | | | | | | | | | | | | | | | | | |
| | Metering of Feeders- | | | | | | | | | | | | | | | | | | | | | | | |
| | 66/33/22KV | | | | | | | | | | | | | | | | | | | | | | <u> </u> | |
| | Metering of Feeders-11KV | | | | | | | | | | | | | | | | | | | | | | | |
| | Metering of DTs | | | | | | | | | | | | | | | | | | | | | | | |
| | Metering of all Consumers | | | | | | | | | | | | | | | | | | | | | | | |
| | Fund for IT/communication | | | | | | | | | | | | | | | | | | | | | | | |
| | optic fibre link | | | | | | | | | | | | | | | | | | | | | | | |
| | SCADA | | | | | | | | | | | | | | | | | | | | | | | |
| | V-SAT | | | | | | | | | | | | | | | | | | | | | | | |
| | GIS incl. mapping and | | | | | | | | | | | | | | | | | | | | | | | |
| | indexation | | | | <u> </u> | <u> </u> | | | | | | | | <u> </u> | | | | | | | <u> </u> | | <u> </u> | 1 |
| | Smart meter-AMI | | | | | | | | | | | | | | | | | | | | | | | |

E. Communication Connectivity through SCADA, OFC, V-SAT etc on Electrical System- Existing and Augmentation

- 1.0 Please state the Status of implementation of SCADA, OFC and V-SAT for existing Electrical system for Each Discoms/Power Deptt of State
- 1.1 PI furnish a write up on issues on achieveing the Plan/targets on implementation of SCADA, OFC and V-SAT for Each Discoms/Power Deptt of State
- 1.2 Pl give details (Name of Power S/s, Feeders or location/areawise DTs, Feeders including underground cables etc.) covered under SCADA, OFC and V-SAT as may be applicable.
- 1.3 The Fund required for implementation of SCADA, OFC and V-SAT etc may be included in "Funds required for Electrical Infratructure"
- 1.4 PI fill the data as applicable for Scada, OFC, Vsat etc.

1.5 No column should be left blank. If No details are available then please write "NA".

| Name of | | Present st | atus in 2015 | | | | | | _ | | | | |
|--------------|--|--------------|----------------|--------------|--------------|---------------|--------------|----------|----------|-----------|---------------|------------|--|
| Discom/Power | | | 31.03.2016 | | | lan for 2016 | | | n for 20 | | | n for 2018 | |
| Deptt, State | Item/Description | SCADA | OFC | | SCADA | OFC | V-Sat | SCADA | OFC | V-Sat | SCADA | OFC | V-Sa |
| | E.1) SCADA, OFC and V- | SAT on Elec | trical Syster | n in Rural A | reas (Includ | ling under th | ne ongoing s | chemes | DDUGJ | and othe | rs) | 1 | |
| | Power | | | | | | | | | | | | |
| | SubStations(66/33/22/11KV), Nos | | | | | | | | | | | | |
| | Feeders of Power | | | | | | | | | | | | |
| | SubStations(66/33/22/11KV), | | | | | | | | | | | | 1 |
| | Nos | | | | | | | | | | | | |
| | Distribution Transformers, Nos | | | | | | | | | | | | |
| | Capacity of Distribution Transformers(11/0.433KV),KV | | | | | | | | | | | | |
| | A | | | | | | | | | | | | |
| | Feeders (11KV), Nos | | | | | | | | | | | | |
| | Length of Feeders (11KV), CKM | | | | | | | | | | | | |
| | Length of LT Feeders (.433KV, .215KV), CKM | | | | | | | | | | | | |
| | E.2) SCADA, OFC and | /-SAT on Flo | ectrical Syste | em in Urbar | areas (Inc | uding under | the ongoin | a scheme | es IPDS | and Other | 5) | | |
| | Power | | | | | | | | | | -, | | |
| | SubStations(66/33/22/11KV), | | | | | | | | | | | | |
| | Nos | | | | | | | | | | | | <u> </u> |
| | Feeders of Power | | | | | | | | | | | | |
| | SubStations(66/33/22/11KV), Nos | | | | | | | | | | | | |
| | Distribution Transformers, | | | | | | | | | | | | |
| | Nos | | | | | | | | | | | | |
| | Capacity of Distribution | | | | | | | | | | | | |
| | Transformers(11/0.433KV),KV | | | | | | | | | | | | 1 |
| | Α | | | | | | | | | | | | |
| | Feeders (11KV), Nos | | | | | | | | | | | | |
| | Length of Feeders (11KV), CKM | | | | | | | | | | | | |
| | Length of LT Feeders (.433KV, | | | | | | | | | | | | |
| | .215KV), CKM | | | | | | | | | | | | <u> </u> |
| | Length of LT Feeders (.433KV, | | | | | | | | | | | | ĺ |
| | .215KV), CKM | 1 | | | | | 1 | | | | | | i |

E. Communication Connectivity through SCADA, OFC, V-SAT etc on Electrical System- Existing and Augmentation

- 1.0 Please state the Status of implementation of SCADA, OFC and V-SAT for existing Electrical system for Each Discoms/Power Deptt of State
- 1.1 PI furnish a write up on issues on achieveing the Plan/targets on implementation of SCADA, OFC and V-SAT for Each Discoms/Power Deptt of State
- 1.2 PI give details (Name of Power S/s, Feeders or

location/areawise DTs, Feeders including

- 1.3 The Fund required for implementaion of SCADA, OFC and V-SAT etc may be included in "Funds required for Electrical Infratructure"
- 1.4 PI fill the data as applicable for Scada, OFC, Vsat etc.
- 1.5 No column should be left blank. If No details are available then please write "NA".

| Name of | | | | | ite NA. | | | | | |
|---------------------|----------------------------------|-------|---------|-------|---------|------------|-------|-------|-------------|-------|
| Discom/Power | | | for 201 | | | n for 2020 |)-21 | | an for 2021 | -22 |
| Deptt, State | Item/Description | SCADA | OFC | V-Sat | SCADA | OFC | V-Sat | SCADA | OFC | V-Sat |
| ical System in Rura | al Areas (Including under the or | 1 | | | | | | | | |
| | Power | | | | | | | | | |
| | SubStations(66/33/22/11KV), | | | | | | | | | |
| | Nos | | | | | | | | | |
| | Feeders of Power | | | | | | | | | |
| | SubStations(66/33/22/11KV), | | | | | | | | | |
| | Nos | | | | | | | | | |
| | Distribution Transformers, | | | | | | | | | |
| | Nos | | | | | | | | | |
| | Capacity of Distribution | | | | | | | | | |
| | Transformers(11/0.433KV),KV | | | | | | | | | |
| | Α | | | | | | | | | |
| | Feeders (11KV), Nos | | | | | | | | | |
| | Length of Feeders (11KV), | | | | | | | | | |
| | СКМ | | | | | | | | | |
| | Length of LT Feeders (.433KV, | | | | | | | | | |
| | .215KV), CKM | | | | | | | | | |
| | | | | | | | | | | |
| trical System in Ur | ban areas (Including under the | (| | | | | | | | |
| | Power | | | | | | | | | |
| | SubStations(66/33/22/11KV), | | | | | | | | | |
| | Nos | | | | | | | | | |
| | Feeders of Power | | | | | | | | | |
| | SubStations(66/33/22/11KV), | | | | | | | | | |
| | Nos | | | | | | | | | |
| | Distribution Transformers, | | | | | | | | | |
| | Nos | | | | | | | | | |
| | Capacity of Distribution | | | | | | | | | |
| | Transformers(11/0.433KV),KV | | | | | | | | | |
| | A | | | | | | | | | |
| | Feeders (11KV), Nos | | | | | | | | | |
| | Length of Feeders (11KV), | | | | | | | | | |
| | СКМ | | | | | | | | | |
| | Length of LT Feeders (.433KV, | | | | | | | | | |
| | .215KV), CKM | | | | | | | | | |
| | Length of LT Feeders (.433KV, | | | 1 | | | | | | |
| | .215KV), CKM | | | | | | | | | |

F. GPS based GIS mapping for Electrical System- Existing and Augmentation

- 1.0 Please state the Status of implementation of GIS for existing Electrical system for Each Discoms/Power Deptt of State
- 1.1 PI furnish a write up on issues on achieveing the Plan/targets on implementation of GIS for Each Discoms/Power Deptt of State
- 1.2 PI give details (Name of Power S/s, Feeders or location/areawise DTs, Feeders(including underground cables etc), consumers covered under GIS mapping
- 1.3 The Fund required for implementaion of GIS may be included in "Funds required for Electrical Infratructure"
- 1.4 PI fill the data as applicable for GIS. No column should be left blank. If No details are available then please write "NA".
- 1.5 No column should be left blank. If No details are available then please write "NA".

| Name of | | Present status in 2015-16, as on | | | | | | |
|----------------------|---|----------------------------------|-------------|---------------|---------|------------|---------|---------|
| Discom/Power | | 31.03.2016 | | | Plan un | to 2021-22 | | |
| Deptt, State | Item/Description | GIS | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
| | cal System in Rural Areas (Including | under the ongoing | schemes DDU | IGJY and othe | ers) | | | |
| | Power SubStations(66/33/22/11KV),Nos | | | | | | | |
| | Feeders of Power SubStations(66/33/22KV), Nos | | | | | | | |
| | Distribution Transformers, Nos | | | | | | | |
| | Feeders (11KV), Nos | | | | | | | |
| | LT Feeders (.433KV, .215KV),Nos | | | | | | | |
| | Consumer indexing,Nos | | | | | | | |
| F.2) GIS on Electric | cal System in Urban areas (Including Power SubStations(66/33/22/11KV),Nos | under the ongoing | schemes IPD | S and Others) | | | | |
| | Feeders of Power SubStations(66/33/22KV), Nos | | | | | | | |
| | Distribution Transformers, Nos | | | | | | | |
| | Feeders (11KV), Nos | | _ | | | | | |
| | LT Feeders (.433KV, .215KV),Nos | | | | | | | |
| | Feeder wise Consumer indexing | | | | | | | |

G. IT enablement in Electrical System- Existing and Augmentation

- 1.0 Please state the Status of implementation of IT enablement in existing Electrical system for Each Discoms/Power Deptt of State
- 1.1 Pl furnish a write up on issues on achieveing the Plan/targets on implementation of IT enablement for Each Discoms/Power Deptt of State
- 1.2 Pl give details (Name of Power S/s, Feeders or location/areawise DTs, Feeders(including underground cables etc), consumers covered under GIS mapping
- 1.3 The Fund required for implementation of IT enablement may be included in "Funds required for Electrical Infratructure"
- 1.4 PI fill the data as applicable for IT enablement. No column should be left blank. If No details are available then please write "NA".
- 1.5 No column should be left blank. If No details are available then please write "NA".

| Name of Discom/Power | | Present status in 2015- | | | IT onablemen | t Dian unto 20 | 21 22 | | |
|----------------------|--|----------------------------|--------------|---------------|--------------|---------------------------|---------|---------|---------|
| Deptt, State | Item/Description | 16, as on 31.03.2016 | 2016-17 | 2017-18 | 2018-19 | t Plan upto 20 2019-20 | 2020-21 | 2021-22 | Remarks |
| | Electrical System in Rural Area | | | | | 2017-20 | 2020-21 | 2021-22 | Kemarks |
| | Data Center(DC) | | <u> </u> | | | | | | |
| | Disaster Recovery centre | | | | | | | | |
| | IT Intergration with DC/DRC | | | | | | | | |
| | Enterprise Resource Planning III enablement of Feeders | | | | | | | | |
| | (11KV), Nos | | | | | | | | |
| | Customer Care Center | | | | | | | | |
| G.2) IT enablement | Electrical System in Urban area | as (Including under the or | ngoing schem | es IPDS and C | Others) | | | | |
| | Data Center(DC) | | | | | | | | |
| | Disaster Recovery centre | | | | | | | | |
| | IT Intergration with DC/DRC | | | | | | | | |
| | Enterprise Resource Planning | | | | | | | | |
| | IT enablement of Feeders | | | | | | | | |
| | (11KV), Nos | | | | | | | | |
| | Customer Care Center | | | | | | | | |